



Illinois Department of Transportation

Memorandum

To: *

From: Rich Dotson *RD*

Subject: **Special Provision Changes**

Date: January 25, 2014

The following special provisions have been revised for the April 25,, 2014 and June 13, 2014 lettings. Please revise your special provision books as indicatedAccording to the below corrections.

District Special Provisions

District Number	Description
406.02 (New)	"Hot-Mix Asphalt – Prime Coat (BMPR)" Special Provision title corrected Checklist.
440.03c (Revised)	"Center Joint Repair System" Revision Date corrected.
733.00 (New)	"Re-Tightening Anchor Bolts for Cantilever Sign Structures" Title corrected and Effective Date corrected.

Special Provisions Check List – Generated 1/21/14 3:17 PM
Minor title and date revisions made.

Attachments

cc: *	N. Jack	Team 1	Team 5	Team 9	Galesburg Design
	T. Phillips	Team 2	Team 6	Team 10	Local Roads (M. Augspurger)
	L. Hayworth	Team 3	Team 7	Team 11	Materials (H. Shoup)
		Team 4	Team 8	Geometrics	Bridge (T. Inglis)

RJD:tdp\s:\mgr2\winword\special provisions\special provisions changes memos\specprovchnsgsmemo_2014-01-24.doc

Designer Note: Include in all contracts with HMA overlays or full-depth HMA pavements.

HOT-MIX ASPHALT – PRIME COAT (BMPR)

Effective: April 25, 2014

Revise Note 1 of Article 406.02 of the Standard Specifications to read:

"Note 1. The bituminous material used for prime coat shall be one of the types listed in the following table.

When emulsified asphalts are used, any dilution with water shall be performed by the emulsion producer. The emulsified asphalt shall be thoroughly agitated within 24 hours of application and show no separation of water and emulsion.

Application	Bituminous Material Types
Prime Coat on Brick, Concrete, or HMA Bases	SS-1, SS-1h, SS-1hP, SS-1vh, CSS-1, CSS-1h, CSS-1hP, HFE-90, RC-70
Prime Coat on Aggregate Bases	MC-30, PEP"

Revise Article 406.05(b) of the Standard Specifications to read:

"(b) Prime Coat. The bituminous material shall be prepared according to Article 403.05 and applied according to Article 403.10. The use of RC-70 shall be limited to air temperatures less than 60°F (15°C)."

- (1) Brick, Concrete or HMA Bases. The base shall be cleaned of all dust, debris and any substance that will prevent the prime coat from adhering to the base. Cleaning shall be accomplished by sweeping and vacuuming or sweeping and air blasting methods, as approved by the Engineer. The base shall be free of standing water at the time of application. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface as specified in the following table.

Type of Surface to be Primed	Residual Asphalt Rate lb./sq. ft. (kg/sq. m)
Milled HMA, Aged Non-Milled HMA, Milled Concrete, Non-Milled Concrete & Tined Concrete	0.05
Fog Coat between HMA Lifts, IL-4.75 & Brick	0.025

The bituminous material for the prime coat shall be placed one lane at a time. The primed lane shall remain closed until the prime coat is fully cured and does not pickup under traffic. When placing prime coat through an intersection where it is not possible to keep the lane closed, the prime coat may be covered immediately following its application with fine aggregate mechanically spread at a uniform rate of 2 to 4 lb./sq. yd. (1 to 2 kg/sq. m).

- (2) Aggregate Bases. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface of 0.25 lb./sq. ft. \pm 0.01 (1.21 kg/sq. m \pm 0.05).

The prime coat shall be permitted to cure until the penetration has been approved by the Engineer, but at no time shall the curing period be less than 24 hours for MC-30 or four hours for PEP. Pools of prime occurring in the depressions shall be broomed or squeegeed over the surrounding surface the same day the prime coat is applied.

The base shall be primed 1/2 width at a time. The prime coat on the second half/width shall not be applied until the prime coat on the first half/width has cured so that it will not pick up under traffic.

The residual asphalt binder rate will be verified a minimum of once per type of surface to be primed as specified herein for which at least 2000 tons of HMA will be placed. The test will be according to the "Determination of Residual Asphalt in Prime and Tack Coat Materials" test procedure.

Prime coat shall be fully cured prior to placement of HMA to prevent pickup by haul trucks or paving equipment. If pickup occurs, paving shall cease in order to provide additional cure time.

Prime coat shall be placed no more than five days in advance of the placement of HMA. If after five days loss of prime coat is evident prior to covering with HMA, additional prime coat shall be placed as determined by the Engineer at no additional cost to the Department."

Revise the second paragraph of Article 406.13(b) of the Standard Specifications to read:

"Aggregate for covering prime coat will not be measured for payment."

Revise the first paragraph of Article 406.14 of the Standard Specifications to read:

"Prime Coat will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT), POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) or NON-TRACKING BITUMINOUS MATERIALS (PRIME COAT)."

Revise Article 1032.02 of the Standard Specifications to read:

"1032.02 Measurement. Asphalt binders, emulsified asphalts, rapid curing liquid asphalt, medium curing liquid asphalts, slow curing liquid asphalts, asphalt fillers, and road oils will be measured by weight.

A weight ticket for each truck load shall be furnished to the inspector. The truck shall be weighed at a location approved by the Engineer. The ticket shall show the weight of the empty truck (the truck being weighed each time before it is loaded), the weight of the loaded truck, and the net weight of the bituminous material.

When emulsion is used, the proportions of emulsion and any water added to the emulsion shall be shown on the Bill of Lading.

Payment will not be made for bituminous materials in excess of 105 percent of the amount specified by the Engineer."

Add the following to the table in article 1032.04 of the Standard Specifications:

"SS-1vh	160 – 180	70 – 80"
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Add the following to Article 1032.06 of the Standard Specifications:

"(g) Non Tracking Emulsified Asphalt SS-1vh:

Requirements for SS-1vh			
Test		SPEC	AASHTO Test Method
Saybolt Viscosity @ 25C,	SFS	20-200	T 72
Storage Stability, 24hr.,	%	1 max.	T 59
Residue by Evaporation,	%	50 min.	T 59
Sieve Test,	%	0.3 max.	T 59
Tests on Residue from Evaporation			
Penetration @25°C, 100g., 5 sec.,	dmm	20 max.	T 49
Softening Point,	°C	65 min.	T 53
Solubility,	%	97.5 min.	T 44
Orig. DSR @ 82°C,	kPa	1.00 min.	T 315"

Revise the last table of Article 1032.06 to read:

"Grade	Use
SS-1, SS-1h, CSS-1, CSS-1h, HFE-90, SS-1hP, CSS-1hP, SS-1vh	Prime or fog seal
PEP	Bituminous surface treatment prime
RS-2, HFE-90, HFE-150, HFE-300, CRSP, HFP, CRS-2, HFRS-2	Bituminous surface treatment
CSS-1h Latex Modified	Microsurfacing"

Designer Note: To be used for milling deteriorated pavement longitudinal joints 2-1/2" (65 mm) deep, 3'± (900± mm) wide and placement of bituminous concrete surface course in trench. Discuss width and depth with Construction and modify as needed.

CENTER JOINT REPAIR SYSTEM

Effective March 1, 1991 Revised April 25, 2014

This work shall include all labor, equipment, and material required to mill out an area along and either side of an existing pavement longitudinal joint and replacement with Hot-Mix Asphalt (HMA) material. The removal shall be done with a cold milling machine of sufficient size and weight to remove the concrete to a depth of 2-1/2" (65 mm) and a width of 3 feet (900 mm) in a single operation. After cold milling the existing joint, all loose material shall be removed, and the milled area cleaned with a mechanical sweeper or vacuum to the satisfaction of the Engineer. Replacement HMA material shall be a HMA Binder material for pavements to be resurfaced and a HMA Surface Material for pavements which will not be subsequently overlaid.

Prior to placement of the HMA material, the milled trench shall be primed in accordance with Article 406.05 of the Standard Specifications using an SS-1h or SS-1hP bituminous material. The prime shall be applied at the rate of 0.10 gal./sq.yd. (0.5 L/square meter) by means of a mechanical or hand-held sprayer, and shall be placed on all surfaces of the milled trench. Placement of prime with brooms will not be permitted.

The HMA surface course mixture shall conform to Section 406 of the Standard Specifications. Placement shall be in a single lift by machine methods. Placement of the HMA material shall match the profile of the existing pavement after final compaction. Compaction shall be to the satisfaction of the Engineer.

Roller Requirements: Compaction shall be accomplished using a vibratory roller that conforms to the applicable sections of Article 1101.01 of the Standard Specifications.

Sequence of Operations: The Contractor shall perform work on the centerline joint only when the right lane (driving lane) is open to traffic.

The Contractor shall fill all trenches opened by cold milling in a day with HMA material in the same day. No open trench will be allowed to remain overnight. The barricades and/or drums shall be relocated after the trench is compacted so there is a minimum 12' (3.6 m) lane width in the open lane.

This work will be paid for at the contract unit price per Foot (Meter) for CENTER JOINT REPAIR SYSTEM measured along the pavement centerline joint.

SPECIAL PROVISIONS CHECK LIST
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Designer: _____ FAP: _____
 Contract No.: _____ Section: _____
 County: _____

√	Dir	File Name	Spec Title	Spec Dates
	BRG\	APSLRP-1.DOC	Approach Slab Repair	E 3/13/97
	DES\	00000.doc	STATE OF ILLINOIS	
	DES\	10500.doc	Construction Station Layout	E 7/30/10
	DES\	10506.doc	Prestage Site Construction Meetings	E 6/1/92
	DES\	10507.doc	Removal of Abandoned Underground Utilities	E 1/15/96 R 11/21/96
	DES\	10507a.doc	Status of Utilities/Utilities To Be Adjusted	E 1-21-05
	DES\	10507b.doc	Utilities - Locations/Information on Plans	E 11/8/13
	DES\	10700a.doc	Nationwide 404 Permit Requirements	E 1/22/01 R 8/2/02
√	DES\	10731.doc	Location of Underground State Maintained Facilities	E 8/3/07 R 7/31/09
	DES\	10732.doc	Right-of-Way Restrictions	E 7/1/94
	DES\	10803.doc	Delayed Start of Multiple Contracts	E 11/1/01
	DES\	10805a.doc	Date of Completion	E 3/1/90 R 4/28/08
	DES\	10805b.doc	Date of Completion (Plus Working Days)	E 3/1/90 R 7/1/94
	DES\	20400.doc	Borrow and Furnished Excavation	E 3/7/00 R 4/27/07
	DES\	20500.doc	Geotechnical Reinforcement	E 6/10/93 R 1/1/07
	DES\	20504.doc	Embankment (Restrictions)	E 1/21/05 R 8/3/07
	DES\	20505.doc	Embankment	E 7/1/90 R 8/3/07
	DES\	20505a.doc	Embankment (Small Embankment)	E 10/1/99 R 1/1/07
	DES\	25000.doc	Seeding, Minor Areas	E 7/1/90 R 1/1/07
	DES\	25006a.doc	Mowing	E 12/11/01 R 1/1/12
	DES\	25006b.doc	Mowing	E 12/11/01 R 1/1/12
	DES\	25300a.doc	Tree Whip Mixture	E 8/15/91 R 4/25/08
	DES\	25300b.doc	Seedling Mixture A	E 5/5/00 R 11/1/08
	DES\	28100.doc	Grout for Use With Riprap	E 7/30/10
	DES\	28104.doc	Stone Dumped Riprap*	E 4/15/91 R 1/1/07
	DES\	28106.doc	Stone Riprap	E 11/5/10
	DES\	28303.doc	Aggregate Ditch	E 4/15/91 R 10/15/01
	DES\	30101.doc	Proof Rolling	E 4/23/04 R 1/1/07
	DES\	30103.doc	Subgrade Treatment	E 7/1/90 R 4/28/08
	DES\	30200.doc	Soil Modification	E 7/1/90 R 7/30/10
	DES\	31100.doc	Rock Fill	E 10/15/95 R 4/26/13
	DES\	31101.doc	Subbase Granular Material	E 11/5/04
	DES\	35500d.doc	Temporary Pavement	E 10/1/95 R 4/23/10
	DES\	35600.doc	Temporary Base Course Widening ___ "	E 4/26/13
	DES\	40600.doc	Clean Existing Pavement Edge Joint	E 1/3/00 R 1/1/07
	DES\	40601.doc	Anti-Strip Additive for Hot-Mix Asphalt	E 7/30/10
	DES\	40602.doc	Hot-Mix Asphalt – Prime Coat (BMPR)	E 4/25/14
	DES\	40604a.doc	Hot-Mix Asphalt Surface Course Surface Tests	E 11/1/03 R 1/1/07
	DES\	40613.doc	Payment for Use of Material Transfer	E 4/23/10

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Designer: _____ FAP: _____
Contract No.: _____ Section: _____
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		Device	
DES\	<u>40706.doc</u>	Bituminous Prime Coat for Hot-Mix Asphalt Pavement (Full-Depth)	E 8/3/07 R 4/23/10
DES\	<u>40713.doc</u>	Grooved-in Rumble Strip	E 11/16/07 R 7/30/10
DES\	<u>42020.doc</u>	Railroad Approach Pavement	E 10/1/95 R 1/1/07
DES\	<u>42401.doc</u>	Sidewalk Drains	E 3/1/91 R 1/1/07
DES\	<u>42402.doc</u>	Temporary Sidewalks	E 3/1/91 R 2/1/96
DES\	<u>44000.doc</u>	Partial Depth Patching	E 4/26/13
DES\	<u>44001.doc</u>	Bridge Wearing Surface Removal	E 7/1/90 R 1/1/07
DES\	<u>44002.doc</u>	Longitudinal Joint Repair	E 4/26/13
DES\	<u>44003.doc</u>	Protection of Frames and Lids of Utility Structures	E 3/6/91 R 1/1/07
DES\	<u>44003a.doc</u>	Hot-Mix Asphalt Surface Removal, *** (** mm)	E 3/1/93 R 11/8/13
DES\	<u>44003b.doc</u>	Hot-Mix Asphalt Surface Removal, *** (** mm)	E 2/5/93 R 11/8/13
DES\	<u>44003c.doc</u>	Center Joint Repair System	E 3/1/91 R 4/25/14
DES\	<u>44003d.doc</u>	Pavement Drainage After Cold Milling	E 3/15/96 R 1/1/07
DES\	<u>44003e.doc</u>	Pavement Patching with Hot-Mix Asphalt Surface Removal	E 3/1/97 R 1/1/07
DES\	<u>44003f.doc</u>	Hot-Mix Asphalt Concrete Milling Material	E 11/1/03 R 8/3/07
DES\	<u>44200.doc</u>	Class (*) Patches, Type (**),(***) "	E 1/1/99 R 11/1/07
DES\	<u>44300.doc</u>	Reflective Crack Control Treatment	E 3/1/96 R 1/1/07
DES\	<u>45100.doc</u>	Crack and Joint Sealing	E 6/15/97 R 1/1/07
DES\	<u>48205.doc</u>	Hot-Mix Asphalt Shoulder Resurfacing Required to be Constructed Simultaneously with Mainline Paving	E 4/23/10
DES\	<u>48206.doc</u>	Hot-Mix Asphalt Shoulder Resurfacing Constructed Simultaneously with Mainline Paving	E 1/22/01 R 1/1/07
DES\	<u>50103.doc</u>	Concrete Headwall Removal	E 7/1/90
DES\	<u>50104.doc</u>	Concrete Handrail Removal	E 7/1/90 R 1/1/07
DES\	<u>50300.doc</u>	Bin-Type Retaining Wall	E 7/1/90 R 1/1/07
DES\	<u>50301.doc</u>	Concrete Wearing Surface	E 7/1/90 R 1/1/07
DES\	<u>50302.doc</u>	Surface Filler, Special (Gallon)	E 4/23/10
DES\	<u>50312.doc</u>	Plug Existing Deck Drains	E 1/1/96 R 3/22/01
DES\	<u>50312a.doc</u>	Floor Drain Extension	E 3/22/01
DES\	<u>50317.doc</u>	Bridge Floor Finishing Machine	E 5/1/95 R 1/1/07
DES\	<u>50319.doc</u>	Protective Coat, Special	E 4/23/10
DES\	<u>52100b.doc</u>	Jack and Reposition Bearings	E 11/15/93 R 1/1/09
DES\	<u>52100c.doc</u>	Jacking and Cribbing	E 1/1/94 R 1/1/07
DES\	<u>54200.doc</u>	Seepage Collar	E 12/1/96
DES\	<u>54201.doc</u>	Remove and Relay Pipe Culverts	E 7/1/90 R 1/1/07
DES\	<u>54202.doc</u>	Pipe Culverts (Jacked)	E 1/1/14
DES\	<u>54204.doc</u>	Pipe Culverts	E 7/1/90 R 1/1/07
DES\	<u>54204e.doc</u>	Backfill - Pipe Culverts	E 10/15/95 R 1/1/07

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Designer: _____ FAP: _____
 Contract No.: _____ Section: _____
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DES\	<u>55000.doc</u>	Storm Sewer, (Water Main Quality Pipe)	E 1/1/11 R 1/1/12
DES\	<u>55007.doc</u>	Backfill, Building Removal	E 8/20/91 R 1/1/07
DES\	<u>55200.doc</u>	Steel Pipe Culvert, Special (Jacked) * inches (* mm)	E 7/1/94 R 1/1/07
DES\	<u>55201.doc</u>	(*Storm Sewer/Pipe Culvert) Jacked in Place, ** inches (** mm)	E 7/1/94 R 1/1/07
DES\	<u>56100.doc</u>	Steel Casings * Inches	E 7/1/90 R 1/1/13
DES\	<u>56101.doc</u>	Steel Casings * Inches	E 7/1/90 R 1/1/13
DES\	<u>60101.doc</u>	Pipe Underdrain	E 8/1/03
DES\	<u>60200a.doc</u>	Inlets, Type G-1	E 10/1/95 R 1/1/07
DES\	<u>60200b.doc</u>	Inlets, Type G-1, Special	E 10/1/95 R 1/1/07
DES\	<u>60200c.doc</u>	Inlets, Type G-1, Double, Special	E 10/1/95 R 1/1/07
DES\	<u>60200d.doc</u>	Inlet Manhole, Type G-1, 4' (1.2 m) Diameter	E 10/1/95 R 1/1/07
DES\	<u>60200e.doc</u>	Inlet-Manhole, Type G-1, 4' (1.2 m) Diameter, Special	E 10/1/95 R 1/1/07
DES\	<u>60200f.doc</u>	Inlet-Manhole, Type G-1, 5' (1.5 m) Diameter	E 10/1/95 R 1/1/07
DES\	<u>60200g.doc</u>	Inlet-Manhole, Type G-1, 5' (1.5 m) Diameter, Special	E 10/1/95 R 1/1/07
DES\	<u>60200h.doc</u>	Inlet-Manhole, Type G-1, 5' (1.5 m) Diameter, Double, Special	E 10/1/95 R 1/1/07
DES\	<u>60200i.doc</u>	Inlet-Manhole, Type G-1, 8' (2.4 m) Diameter, Double, Special	E 10/1/95 R 1/1/07
DES\	<u>60200j.doc</u>	Manhole to be Adjusted with New Type G-1 Frame and Grate	E 10/1/95 R 1/1/07
DES\	<u>60200k.doc</u>	Temporary Inlet Drainage Treatment	E 1/1/97
DES\	<u>60200l.doc</u>	Inlets, Type G-2	E 11/1/03 R 1/1/07
DES\	<u>60200m.doc</u>	Inlets, Type G-1, Double	E 7/31/09
DES\	<u>60200n.doc</u>	Inlets, Type " * ", With Special Frame and Grate	E 8/2/13
DES\	<u>60200o.doc</u>	Manhole, Type A, of the Diameter Specified with Special Frame and Grate	E 8/2/13
DES\	<u>60504.doc</u>	Filling Existing Inlets	E 7/1/90 R 7/1/94
DES\	<u>60504a.doc</u>	Filling Existing Culverts	E 10/15/95 R 1/1/07
DES\	<u>60504b.doc</u>	Filling Existing Drainage Structures	E 10/15/95 R 1/1/07
DES\	<u>60608.doc</u>	Island Pavement Constructed on Existing Pavement	E 1/1/97 R 1/1/07
DES\	<u>60612.doc</u>	Drainage Holes	E 7/1/90 R 1/1/07
DES\	<u>63000.doc</u>	Erosion Control Curb	E 4/1/91 R 1/1/07
DES\	<u>63001.doc</u>	Guardrail Aggregate Erosion Control	E 2/1/93 R 1/1/07
DES\	<u>63008.doc</u>	Steel Plate Beam Guardrail, Type A, 6.75 Foot Posts	E 7/31/09 R 4/27/12
DES\	<u>63104.doc</u>	Traffic Barrier Terminals, Type 1, Special (Flared) or (Tangent)	E 7/31/09 R 4/26/13
DES\	<u>63107.doc</u>	Traffic Barrier Terminals, Type 6	E 7/31/09
DES\	<u>63111c.doc</u>	Traffic Barrier Terminals	E 2/1/96 R 11/5/04
DES\	<u>63114.doc</u>	Traffic Barrier Terminals, Type 2	E 7/31/09

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Designer: _____ FAP: _____
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	DES\	<u>63200.doc</u>	Guard Post Removal	E 7/1/90 R 1/1/07
	DES\	<u>63500.doc</u>	Flexible Delineator Maintenance	E 5/5/92 R 1/1/94
	DES\	<u>63501.doc</u>	Flexible Delineators	E 10/1/95 R 1/1/07
	DES\	<u>66701.doc</u>	Permanent Survey Markers	E 1/1/14
	DES\	<u>66704.doc</u>	Permanent Survey Marker, Type 1, Bridge Placement	E 7/1/90 R 3/11/11
	DES\	<u>66802.doc</u>	Permanent Survey Ties	E 4/1/91 R 4/27/12
	DES\	<u>67005.doc</u>	Equipment Vault for Nuclear Testing Equipment	E 6/24/93 R 7/1/94
	DES\	<u>68000.doc</u>	Railroad Track Removal	E 11/1/94 R 1/1/07
	DES\	<u>68000a.doc</u>	Railroad Ties Removal and Disposal	E 11/1/94 R 10/1/95
	DES\	<u>68300.doc</u>	Mortared Stone Wall	E 3/1/91 R 1/1/07
√	DES\	<u>70100.doc</u>	Traffic Control Plan	E R
	DES\	<u>70106.doc</u>	Speeding Penalty	E 1/21/05
	DES\	<u>70108b.doc</u>	Traffic Control and Protection Standard 701331 (Special)	E 10/15/95 R 7/31/09
	DES\	<u>70114.doc</u>	Width Restriction Signing	E 11/1/07 R 1/1/12
	DES\	<u>70120.doc</u>	Traffic Control and Protection BLR 21 and BLR 21 (Special)	E 4/25/08
	DES\	<u>70121.doc</u>	Traffic Control and Protection BLR 22 and BLR 22 (Special)	E 4/25/08 R 7/31/09
	DES\	<u>70122.doc</u>	Traffic Control and Protection Standard 701606 (Special)	E 7/31/09
	DES\	<u>70300.doc</u>	Pavement Marking Removal/Work Zone Pavement Marking Removal	E 4/29/05
	DES\	<u>70400.doc</u>	Temporary Concrete Barrier, State Owned and Temporary Concrete Barrier Terminal Sections, State Owned	E 5/1/91 R 1/1/07
	DES\	<u>70400a.doc</u>	Temporary Concrete Barrier Reflectors	E 1/21/05
	DES\	<u>73300.doc</u>	Re-Tightening Anchor Bolts for Cantilever Sign Structures	E 4/25/14
	DES\	<u>78000.doc</u>	Thermoplastic Pavement Marking Equipment	E 7/1/90 R 1/1/07
	DES\	<u>78001.doc</u>	Thermoplastic Pavement Marking Equipment	E 7/1/90 R 1/1/07
	DES\	<u>78002.doc</u>	Thermoplastic Pavement Marking Equipment	E 7/1/90 R 1/1/07
	DES\	<u>81000.doc</u>	Conduit, Pushed or Trenched	E 10/1/91 R 1/1/07
	DES\	<u>81500.doc</u>	Trench & Backfill, Special for Conduit Installation Beneath Bituminous Shoulders	E 3/21/94 R 1/1/07
	DES\	<u>86300.doc</u>	Terminal Facility	E 3/21/94 R 1/1/07
	DES\	<u>87300.doc</u>	Electric Cable in Conduit, Lead-In, No. 18	E 3/21/94 R 10/15/01
	DES\	<u>88600.doc</u>	Detector Loop, Special for Traffic Counters	E 3/21/94 R 1/1/07
	DES\	<u>88600a.doc</u>	Detector Loops, Type 1	E 3/1/96 R 8/3/07
	DES\	<u>100400.doc</u>	Aggregate Optimization of Class PV Mix for Slipform Paving	E 8/3/12
	DES\	<u>100401.doc</u>	Coarse Aggregate Fill	E 4/29/11

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Designer: _____ **FAP:** _____
Contract No.: _____ **Section:** _____
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DES\	<u>100402.doc</u>	Concrete Superstructure Aggregate Optimization	E 8/4/06 R 8/3/12
DES\	<u>100403b.doc</u>	Coarse Aggregate for Bituminous Courses, Class A	E 6/29/93 R 1/1/07
DES\	<u>100404.doc</u>	Aggregate Quality	E 7/1/90 R 4/26/13
DES\	<u>103000.doc</u>	Hot Mix Asphalt Quality Control for Performance (D4)	E 4/26/13
DES\	<u>103001.doc</u>	Hot-Mix Asphalt - Pay for Performance Using Percent within Limits - Jobsite Sampling (D4)	E 4/26/13
DES\	<u>103002.doc</u>	HMA Mixture Design Requirements, Volumetric Requirements, Verification and Production (D-4)	E 01/01/13 R 11/01/13
DES\	<u>103100.doc</u>	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) (D-4)	E 04/25/14
DES\	<u>110300.doc</u>	PCC QC/QA Electronic Report Submittal	E 4/26/13
DES\	<u>110303.doc</u>	PCC Automatic Batching Equipment	E 4/23/10 R 11/8/13